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TITLE: CHEMICAL DECONTAMINATION

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ABSTRACT:

PURPOSE: To provide a chemical decontamination method capable of surely and effectively treating the primary system of a nuclear reactor and a part thereof by chemical decontamination in as a short time as possible.

CONSTITUTION: A chemical decontamination method for dissolving and removing the clad of a pipeline and an apparatus in a nuclear power plant comprises the first step in which oxidizing and dissolving treatment is performed by a cleaning liquid comprising persulfuric acid and persulfate, and the second step in which a reducing agent is added to the cleaning waste liquid formed in the first stage in an excessive amount in comparison with the amount sufficient for decomposing and reducing the residual persulfuric acid and persulfate to carry out reducing and dissolving treatment. At least one kind selected from among ascorbic acid, erysorbic acid, oxalic acid, salts and derivatives thereof is used as the reducing agent.

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